



# **Green Power in California**

## ***The Year In Review ...***

## ***and beyond***

Tim Tutt  
Renewable Energy Program  
California Energy Commission





# Whew - What a Year!!!!

- *Electricity Crisis in California*
- *Renewable Energy Program & Background*
- *The Green Power Year in Review*
- *The Investment Plan Goals*

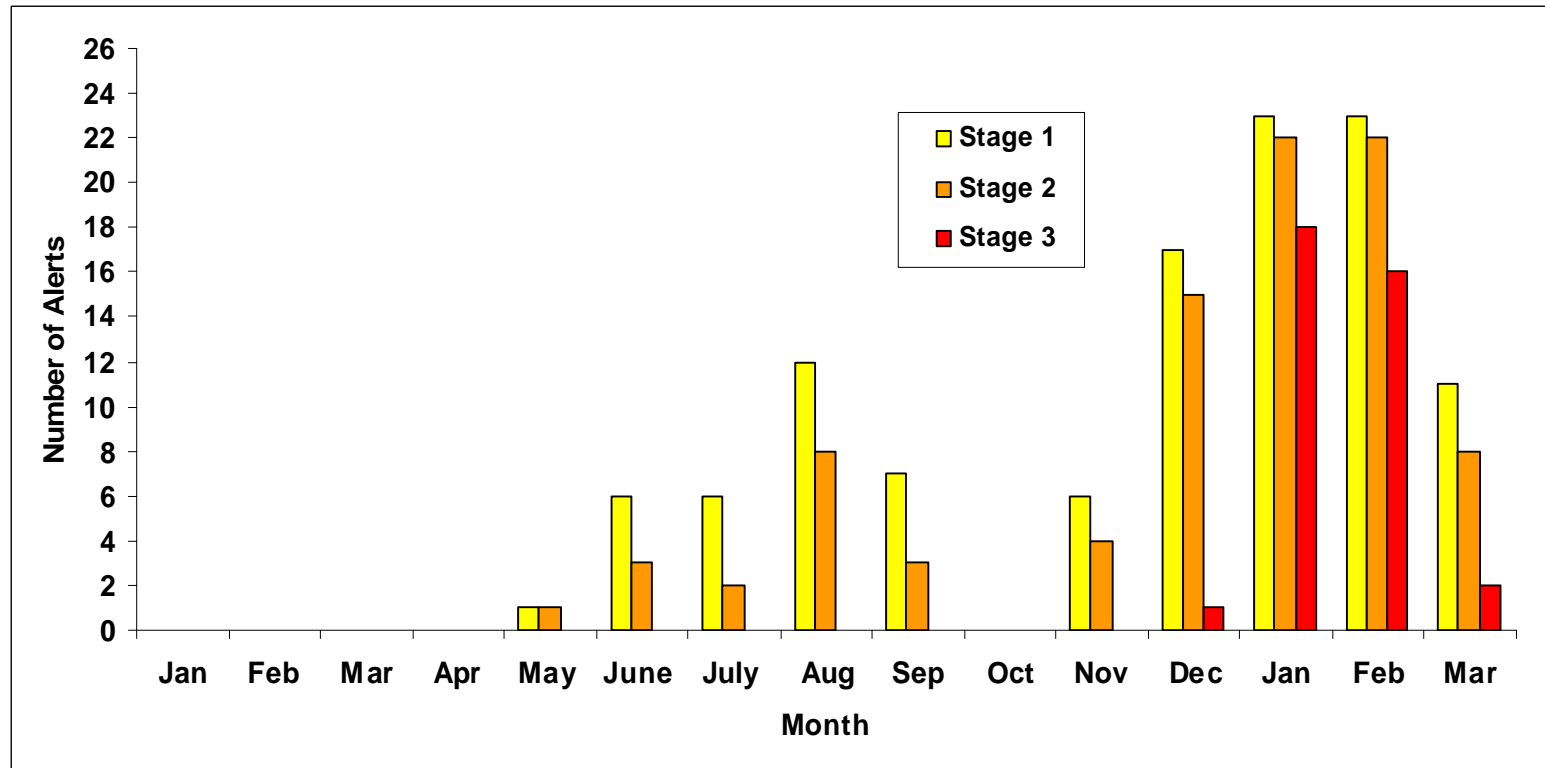


8/21/2001

California Energy Commission



## *ISO Declared Emergencies - 1/00 to 3/01*



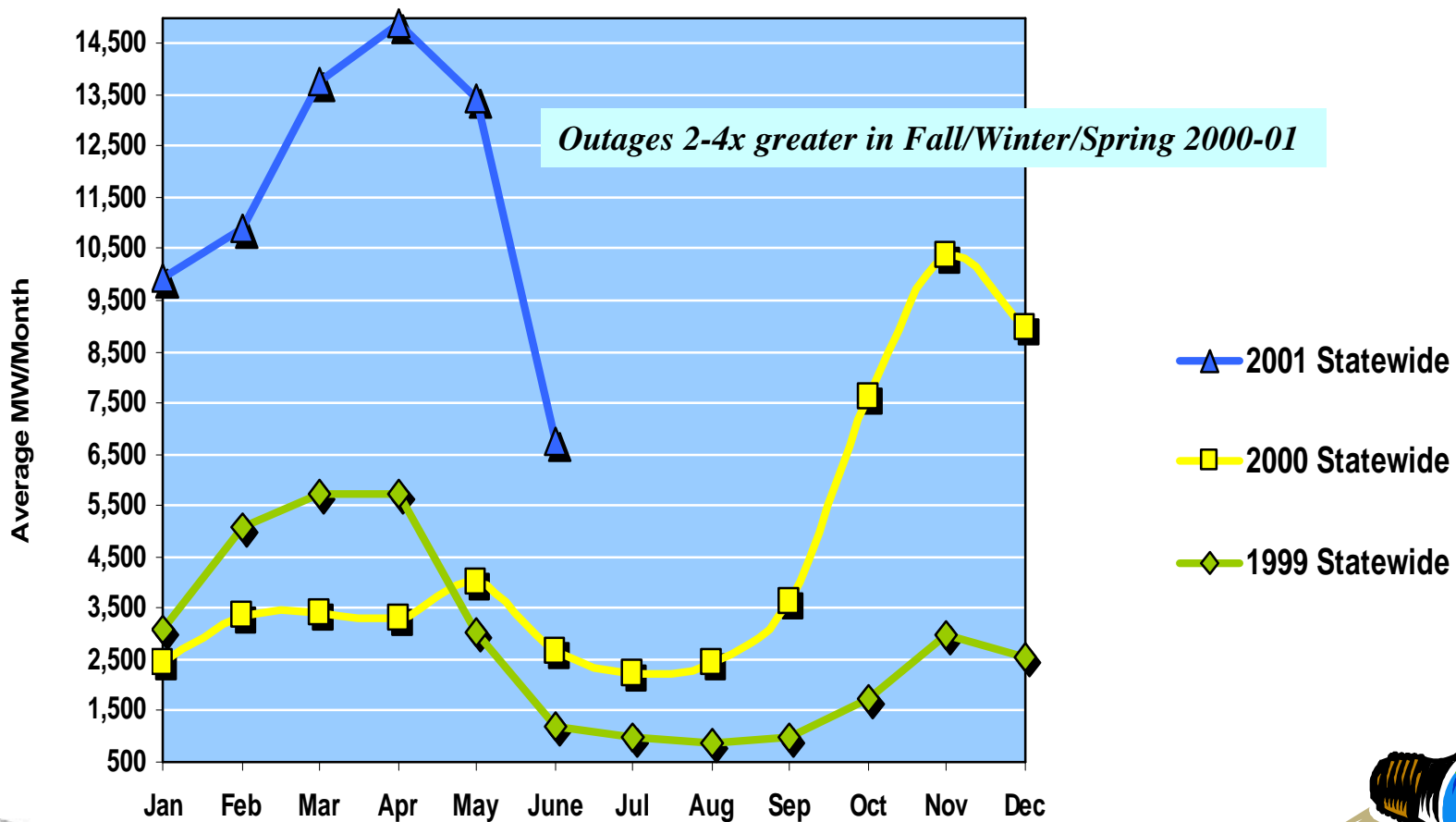
8/21/2001

California Energy Commission



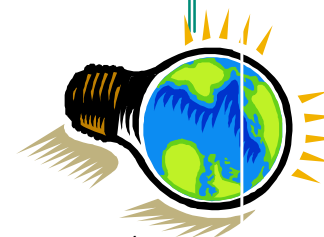


## Historical Generation Outages Scheduled and Forced (Average MW/Month)



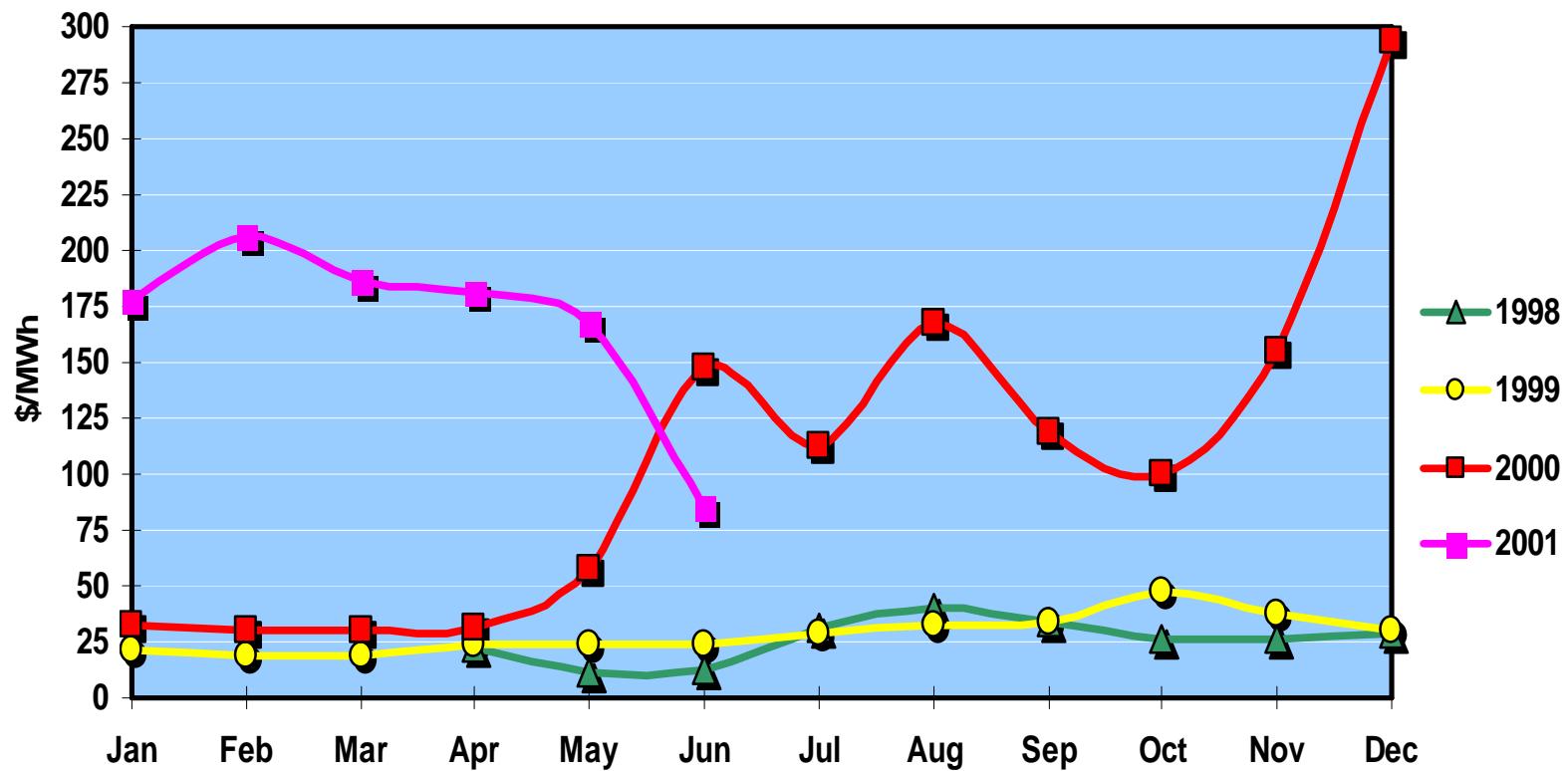
8/21/2001

California Energy Commission





# California Electricity Prices



Sources: 1998-1999 PX Market Clearing Price  
2000-2001 ISO Market Analysis Report, July 20, 2001



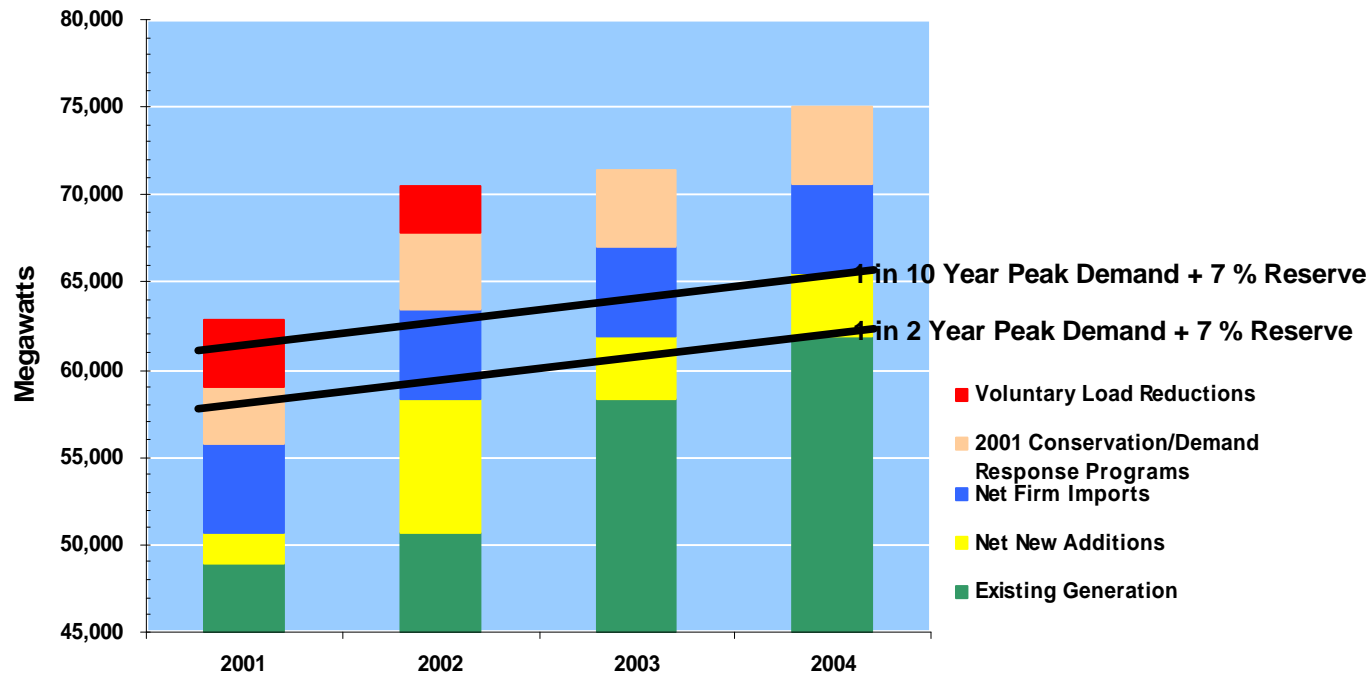
8/21/2001

California Energy Commission





## California Statewide Load/Resource Balance What the Future Looks Like



Existing generation excludes  
3,050 MW for outages



8/21/2001  
June 28, 2001

California Energy Commission





# Renewable Energy Program



- AB 1890, passed in September 1996, allocated \$540 million; ordered CEC Policy Report
- SB 90, passed in November 1997, codified most of Commission's policy recommendations
- AB 995/SB 1194, passed in September 2000, allocates about \$1.3 billion over ten years, starting in 2002
- CEC Investment Plan adopted June, 2001
- Legislation currently under review



8/21/2001

California Energy Commission





# Renewable Energy Program Assisting The Green Market



	Demand	Supply
Buy Green Power	<i>Customer Credit Sub-Account</i>	<i>New Account Existing Account</i>
Make Green Power	<i>Emerging Account</i>	
	<i>Consumer Education SubAccount</i>	



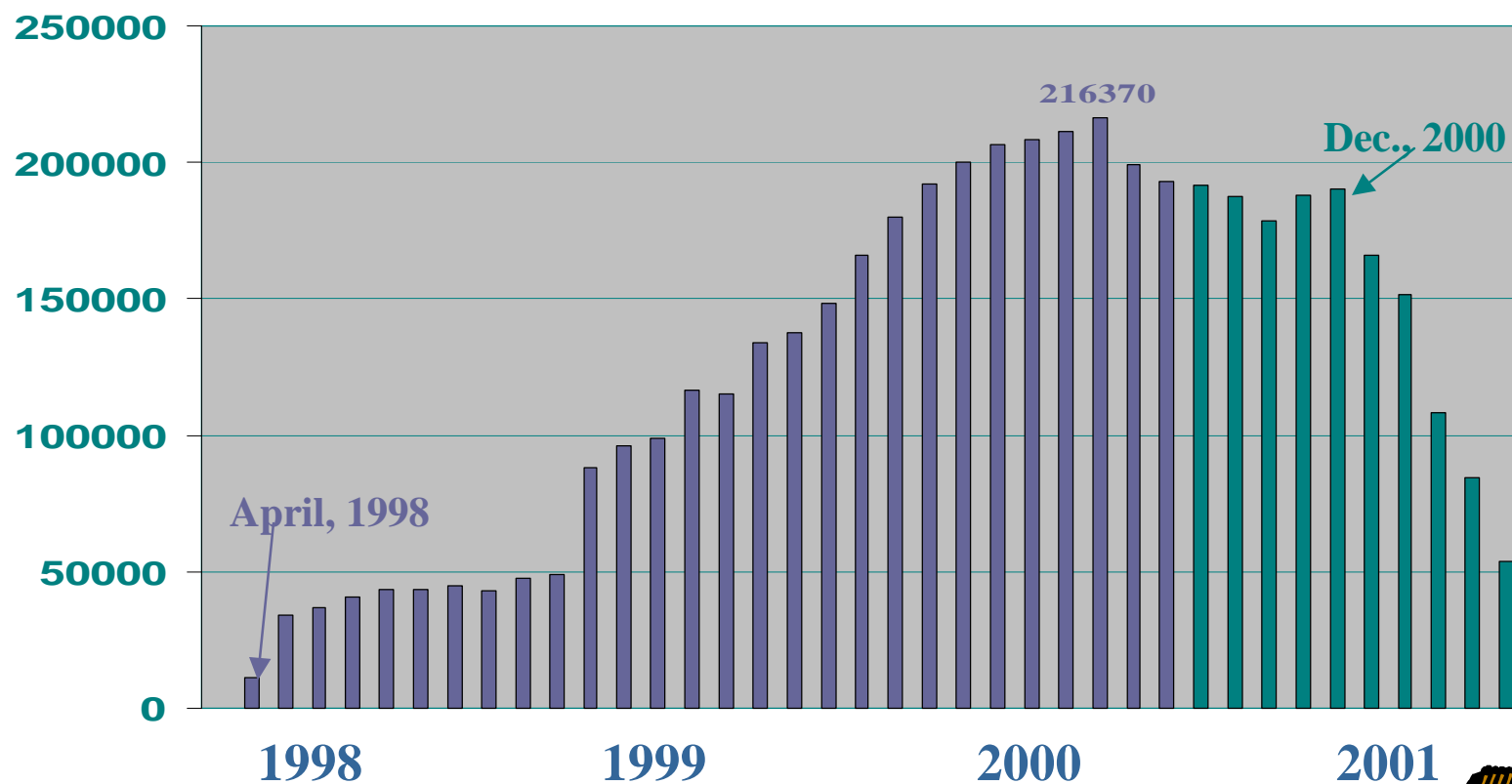
8/21/2001

California Energy Commission



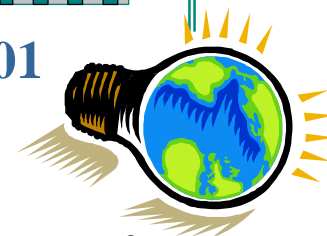


# Green Market: Customer Credit Account



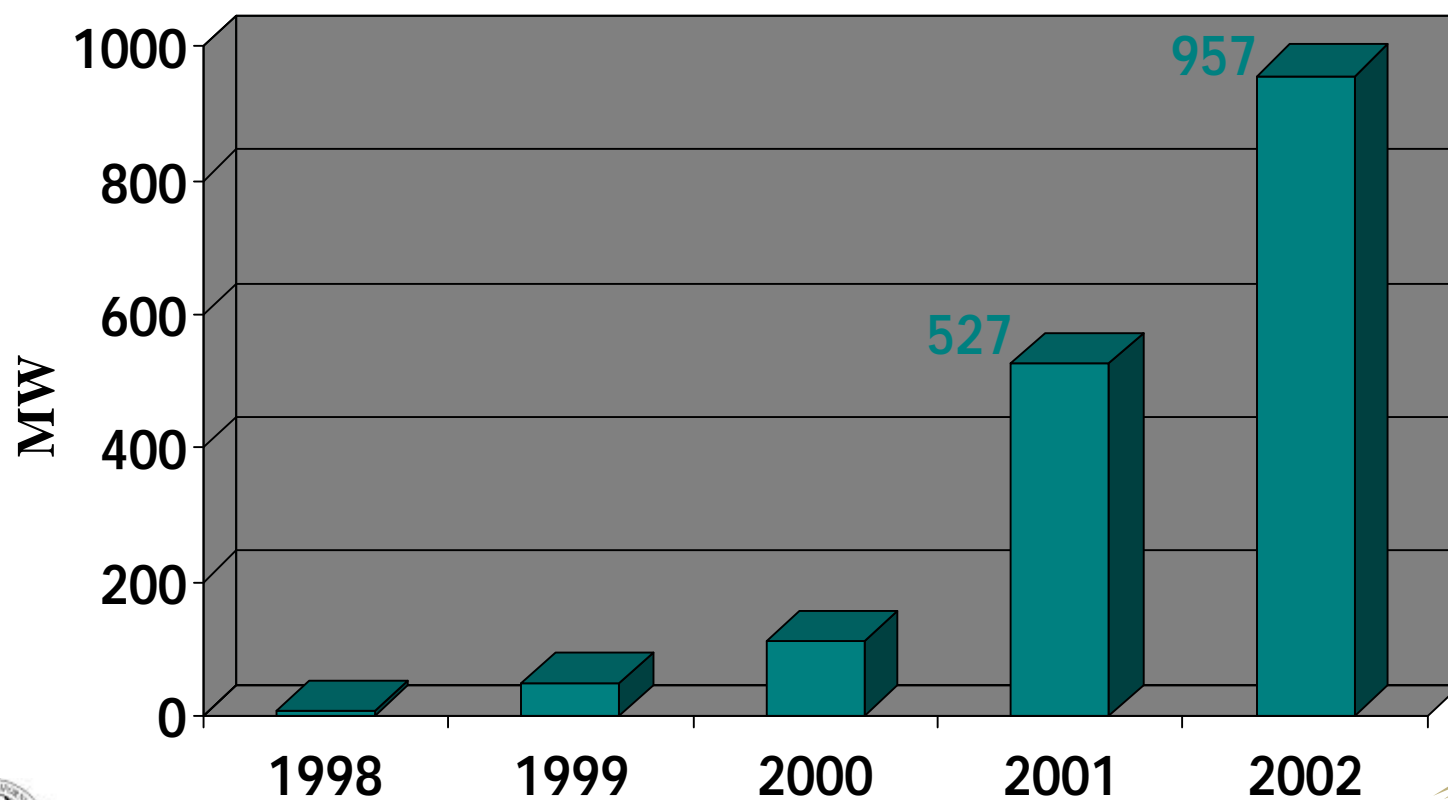
8/21/2001

California Energy Commission





## New Account: On-Line By Year



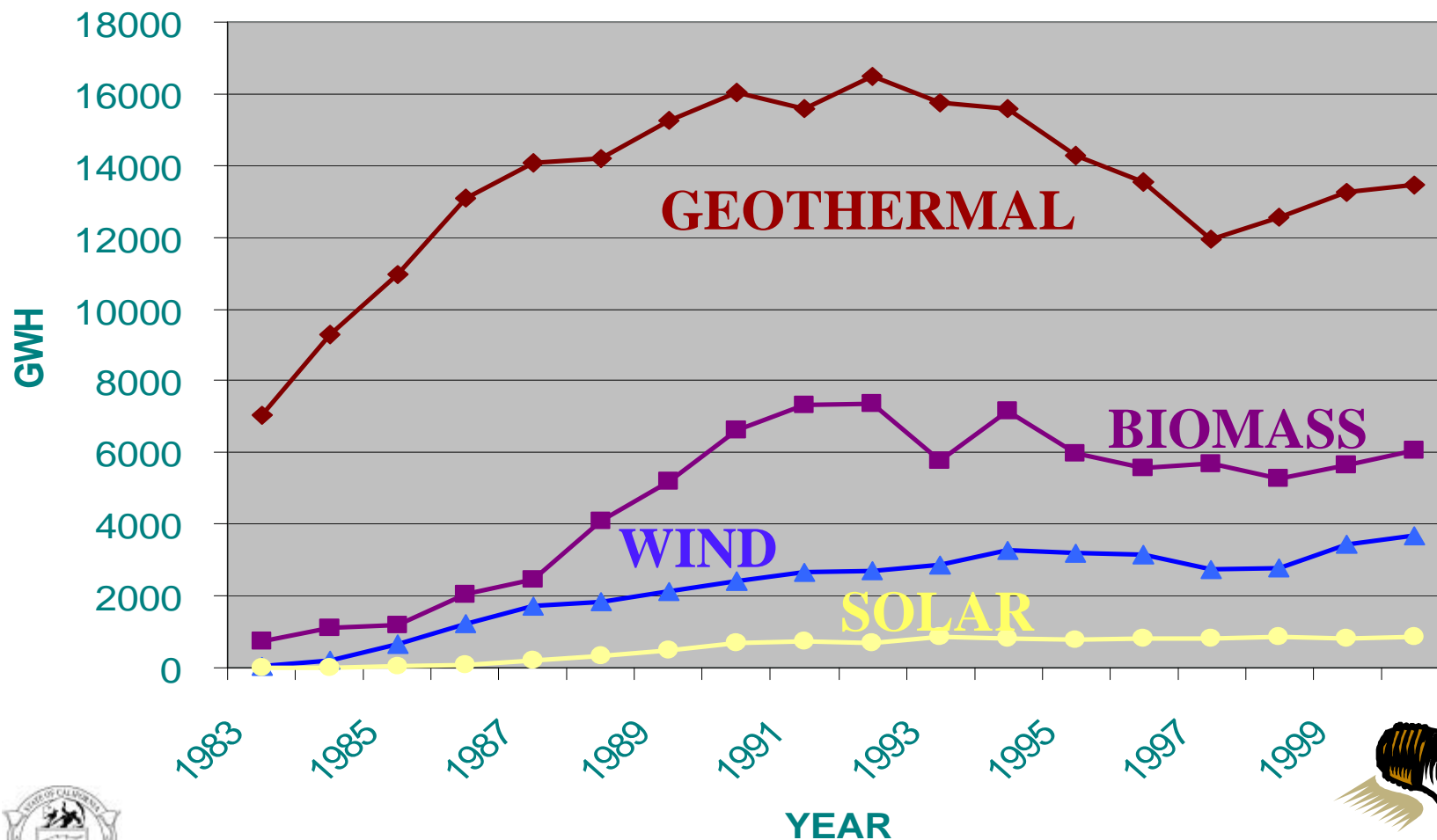
8/21/2001

California Energy Commission





# Renewable GWh By Type



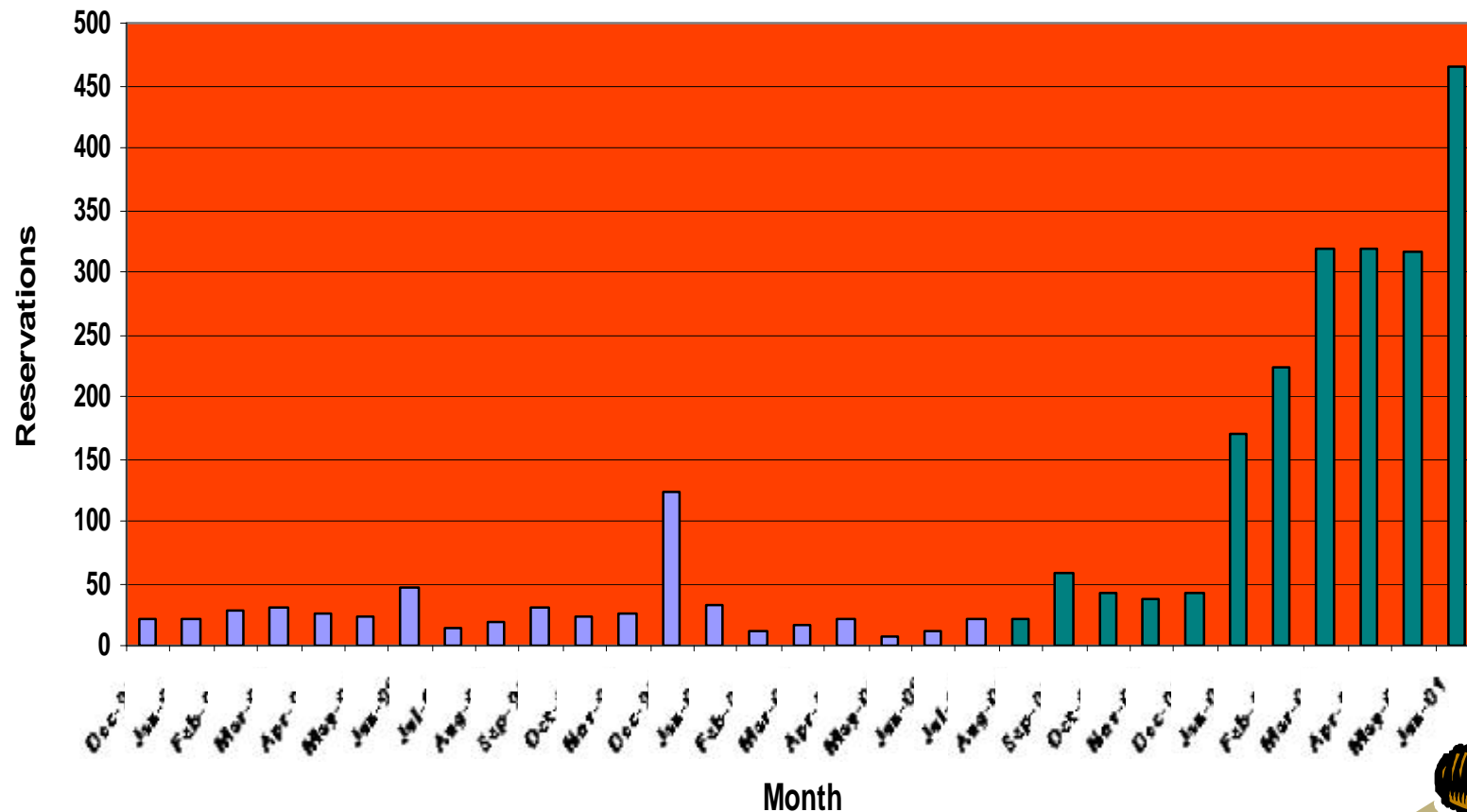
8/21/2001

California Energy Commission





# Buydown Activity: Monthly



8/21/2001

California Energy Commission





# Investment Plan Targets: Percent of Energy in CA



	2002	2004	2006
Emerging	-	-	1%
Existing	12%	12%	12%
New	1%	3%	5%
Total	13%	15%	17%



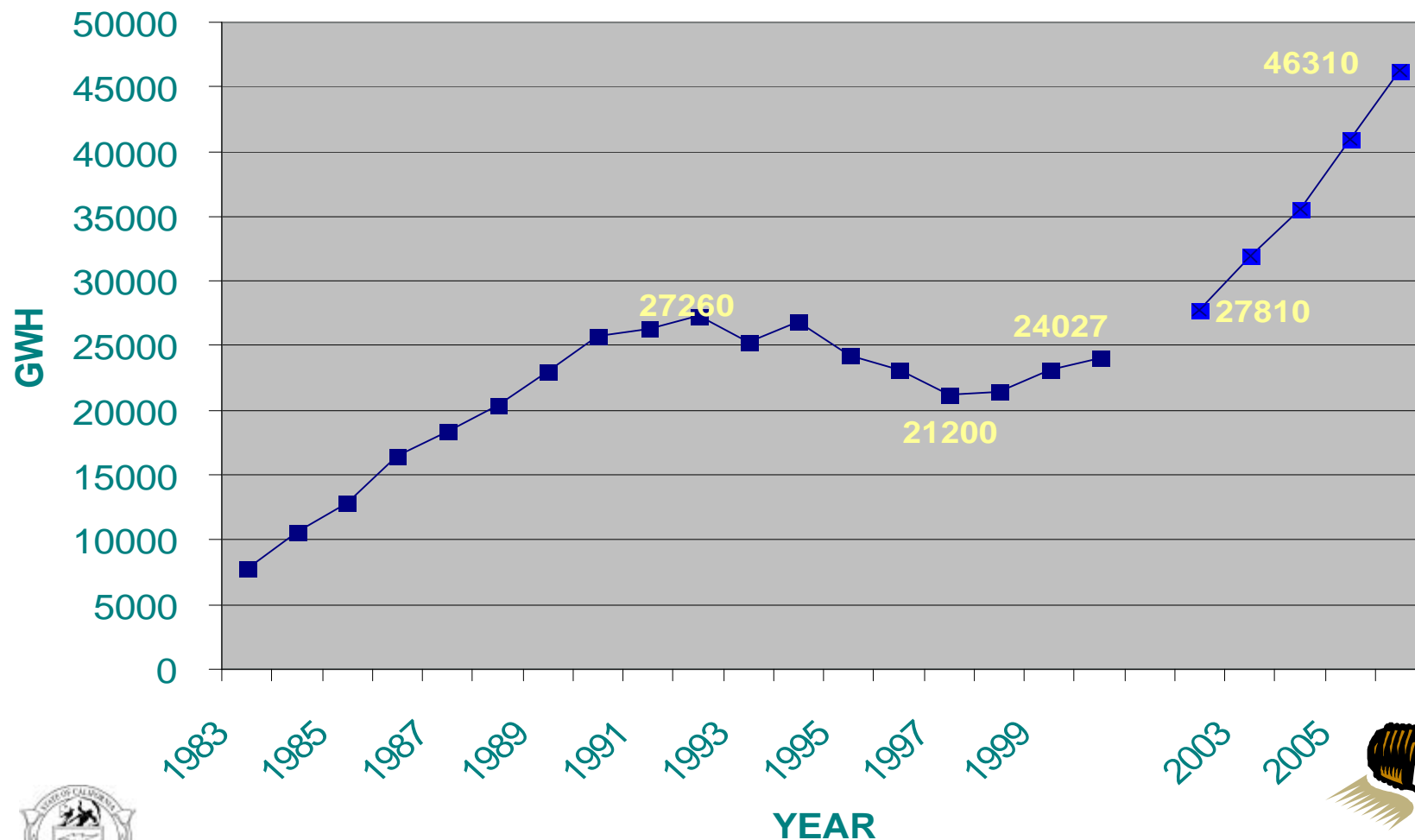
8/21/2001

California Energy Commission



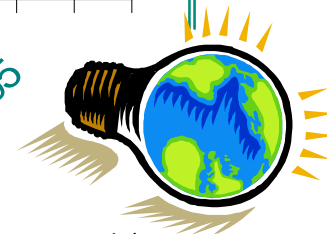


# Investment Plan Goal



8/21/2001

California Energy Commission





## Other Current Measures

- Governor Davis Emphasizing Renewables
- Renewable Portfolio Standard Legislation
- Solar Tax Credits Legislation



8/21/2001

California Energy Commission





# Conclusions

- The Future Looks Bright Green For Renewable Supply In CA
- Green Power Products Will Exist, But Likely To Be Premium Over RPS Minimums
- For more information:
  - Tim Tutt -- (916) 654-4590
  - [www.energy.ca.gov/renewables](http://www.energy.ca.gov/renewables)



8/21/2001

California Energy Commission